In re Application of Murphy and Reid Application Serial No. Filed: July 19, 2000





DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled ALPHA-GALACTOSIDASE, the specification of which

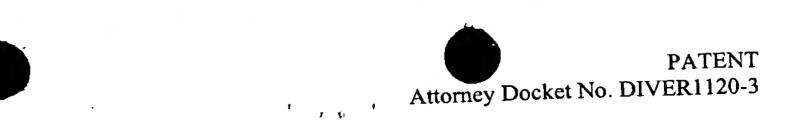
 is attached hereto. was filed on July 19, 2000 (Attorney Docket No. DIVER1120-3) as U.S. Application Serial No
and was amended onif applicable (the "Application").

I hereby authorize and request insertion of the application serial number of the Application when officially known.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability of the subject matter of the Application as defined in Title 37, Code of Federal Regulations ("C.F.R."), § 1.56.

In re Application of Murphy and Reid Application Serial No. Filed: July 19, 2000



With respect to the Application, I hereby claim the benefit under 35 U.S.C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of the application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability of the subject matter of the Application as defined in Title 37, C.F.R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of the Application:

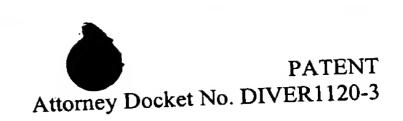
09/407,806 (Application Serial No.)	September 28, 1999 (Filing Date)	Pending (Status)
08/613,220 (Application Serial No.)	March 8, 1996 (Filing Date)	Issued September 28, 1999 as U.S. Patent No. 5,958,751

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

	· PRI ICATION NO	FILING DATE	PRIORITY C	LAIMED
COUNTRY	APPLICATION NO.		□ Yes	□ No



In re Application of Murphy and Reid Application Serial No. Filed: July 19, 2000



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Dennis Murphy
Inventor's signature:
Date:
Residence: Paoli, PA 19301
Citizenship: <u>United States</u>
Post Office Address: 10 Fairway Road
Paoli, PA 19301
Full name of second inventor: John Reid
Inventor's signature:
Date:
Residence: Bryn Mawr, PA 19010
Citizenship: <u>United States</u>
Post Office Address: 922 Montgomery Ave., Apt. J-2
Bryn Mawr, PA 19010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Murphy and Reid

Art Unit:

Examiner

Unassigned Unassigned

Serial No.:

July 19, 2000

Title:

Filed:

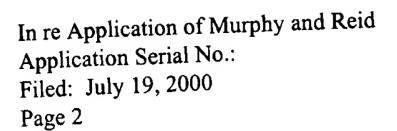
ALPHA-GALACTOSIDASE

Assistant Commissioner for Patents Washington, D.C. 20231

REVOCATION OF POWERS OF ATTORNEY; POWER OF ATTORNEY BY ASSIGNEE AND CHANGE OF ADDRESS

Sir:

DIVERSA CORPORATION, a Delaware corporation, the assignee of the entire right, title and interest in the above-identified application hereby revokes all previous Powers of Attorney and appoints the following attorneys to prosecute the above-identified patent application and to transact all business in the Patent and Trademark Office connected therewith:



PATENT Attorney Docket No.: DIVER1120-3

TIM ELLIS	Registration No. 40,900 Registration No. 41,734 Registration No. 38,347 Registration No. 33,402 Registration No. 37,643 Registration No. 44,835 Registration No. 31,238 Registration No. 35,255 Registration No. 30,298 Registration No. 41,234 Registration No. 41,234 Registration No. 31,192 Registration No. 40,825 Registration No. 38,322 Registration No. 38,322 Registration No. 38,626 Registration No. 27,744
-----------	---

We hereby state that we have reviewed and understand the contents of the aboveidentified specification, including the claims, as amended by any amendment(s) referred to above.

We authorize and request insertion of the serial number of this application when officially known.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

In re Application of Murphy and Reid Application Serial No.: Filed: July 19, 2000 Page 3

PATENT

Attorney Docket No.: DIVER1120-3

Direct all telephone calls and correspondence to:

LISA A. HAILE, Ph.D. GRAY CARY WARE & FREIDENRICH LLP 4365 Executive Drive, Suite 1600 San Diego, CA 92121

Direct Line: (858) 677-1456 Facsimile: (858) 677-1465

DIVERSA CORPORATION

a Delaware corporation

Ву:	
Name:	Carolyn Erickson
Title:	Vice President, Intellectual Property
Date:	

T The state of the s

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Murphy, D. et al.

Art Unit:

1814

Serial No.:

08/613,220

Examiner:

Hendricks, K.

Filed:

3/8/96

Title:

ALPHA-GALACTOSIDASE

Assistant Commissioner for Patents Washington, DC 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) RECOMBINANT BIOCATALYSIS, INC., a Delaware corporation, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 8103, Frames 0390-0393, on July 18, 1996.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

> 6-13-97 Date of Deposit I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231. Saphann Shawet

Stephanie Sharrett

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints: John R. Wetherell, Jr., Ph.D. (Reg. No. 31,678); Lisa A. Haile (Reg. No. 38,347); Stacy L. Taylor (Reg. No. 34,842); John Land (Reg. No. 29,554), and June M. Learn (Reg. No. 31,238), of the firm of FISH & RICHARDSON P.C., as its attorneys with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

Please direct all telephone calls to John R. Wetherell at (619) 678-5070 and all correspondence relative to said application to the following address:

John R. Wetherell, Jr., Ph.D. FISH & RICHARDSON, P.C. 4225 Executive Square, Suite 1400 La Jolla, California 92037 (619) 678-5099 (Facsimile)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: 5-17-97

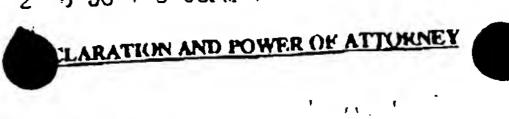
Carolyn Erickson

Manager, Business Development and

Regulatory Affairs

RECOMBINANT BIOCATALYSIS, INC.

30888.LJ1



As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I helieve I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled;

	ALPEA-GALA	CTOSIDABR		
			and was among	led on
	attached hereto or [] was filed on	as Application Serial No.		
specification of which [X] is	allaction in []			
(if app	plicable).	dentified specification, including the claim	a na amended by any ame	adment
	the contents of the above	dentified specification, including the claim	a, as amended by	
creby state that I have reviewed	and understand the contested of the			
ferred to above.			with Title 37. Code of	Pederal
	and the pa	tentability of this application in accordant	E With Tide 371 Code	
scknowledge the duty to disclos	e information which is material was	tentahility of this application in accordance		
egulations, Section 1.56(a).			and an inventor's certifica	te listed
	and as stained Stutes Code. Se	etion 119 of any forcign application(s) for p ventor's certificate having a liting date befo	applied the englishing of	n which
herchy claim foreign priority hen	efits under Title 33, United States Code, so	ction 119 of any foreign application(s) for p ventor's certificate having a liting date before	Ne that of the application o	
	MA TO SOLUTION OF THE		Deineity	Claimed
riority is claimed. Prior Foreign	n Application(s):			No
Kittly is outside the			Yes ≀⊐	L
		(Day/Month/Year Filed)	1,1	L.
(Number)	(Country)			at mettas
Manuscry		frey United States application(s) listed belo	w and, involar as the sunje	Cinbacci Tila 25
Endry claim the benefit under T	fille 35, United States Code, Section 120 m	fany United States application(s) listed below the States application in the manner provided information as defined in Title 37, Code of the state o	I by the first bacakraph of	1 ILE 33,
				(8) 0 C.1 a
Each of the China of the Print 112.	I acknowledge the duty to disclose material	information as defined the date of	this application:	
Jaicod States Code, Security 121	ng date of the prior application and the na	information as defined in Trice 57, ended in this street, end in this st		
which occurred between the time	•		Pending	
Facetian Control of the Control of t		(Sta	tus - patented, pending, ab	boarbas
iii	(Filing Datc)			_
(Application Scried No.)	(2 6	(Ste	tus - patented, pending, at	seuqoncq
=	(Filing Date)	(4		
	(Time and			
(Application Scrial No.)				
Maryon and American A		t a conset all business	in the Patent and Tradem	ark Offic
	errorrev(a) and/or agent(a) to prosecute t	his application and to transact all business	in the Patent and Tradem	ark Offic nd J. Lilli
Freehy appoint the following	attorney(s) and/or agent(s) to prosecute to	his application and to transact all business III (Reg. No. 22,746); Elliot M. Olstein (in the Patent and Tradem Reg. No. 24,025); Raymon	ack Office nd J. Lilling ry Ferran
Freehy appoint the following	attorney(s) and/or agent(s) to prosecute to Bain (Reg. No. 18,651); John G. Gilfillan,	his application and to transact all business, III (Reg. No. 22,746); Elliot M. Olstein (Rog. No. 25,378); Kenneth S. Weitzman (Rog. Rog. Rog. Rog. Rog. Rog. Rog. Rog.	in the Patent and Tradem Reg. No. 24,025); Raymon leg No. 36,306); and Grego Hollan Cocchi, Stewart &	ark Officed J. Lilling Formation, Objection,
hereby appoint the following	attorney(s) and/or agent(s) to prosecute to Bain (Reg. No. 18,651); John G. Gilfillan, lerron (Reg. No. 28,019); William Squire (his application and to transact all business, III (Reg. No. 22,746); Elliot M. Olstein (Rog. No. 25,378); Kenneth S. Weitzman (Rog. Herron c/o Carella, Byrne, Bain, G	in the Patent and Tradem Reg. No. 24,025); Raymon leg No. 36,306); and Grego illitan, Cocchi, Stewart &	ark Offic id J. Lilli ry Ferrar Olylein,
Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Chairman (201), 204-1700	Rog. No. 25,378); Renneur S. Weithinson, C. Rog. No. 25,378); Renneur S. Weithinson, C. Rog. Rog. Bain, G. Carella, Byrne, Bain, G.	illilian, Cocchi, Stewart &	Olylein,
Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of Bocker Farm Road, Rosciand,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700.	Rog. No. 25,378); Remeta S. Wellsham (e. ries J. Herron c/o Carella, Byrne, Bain, G	illilian, Cocchi, Stewart &	Obstein, ieved to b
Freehy appoint the following connected therewith: John N. E. (Reg. No. 31, 78); Charles J. H. (Reg. No. 36, 134). Address of Becker Farm Road, Rosciand,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700.	res J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Obstein, ieved to by time
Frereby appoint the following connected therewith: John N. E (Reg. No. 31,778); Charles J. H (Reg. No. 36,134). Address of Bocker Farm Road, Rosciand,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700.	res J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Olylein, ieved to by time
Freehy appoint the following connected therewith: John N. E (Reg. No. 31,778); Charles J. H (Reg. No. 36,134). Address of Becker Farm Road, Rosciand,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Chai NJ 07068 - (201) 994-1700.	res J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Olylein, ieved to by time
Frereby appoint the following connected therewith: John N. E. (Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of Becker Farm Road, Roseland, I hereby declare that all statem true; and further that these statements or both, under the statements of both, under the statements of both, under the statements of both.	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Income mude herein of my own knowledge at the means were made with the knowledge Section 1001 of Title 18 of the United States	res J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Olylein, ieved to by time
Frereby appoint the following connected therewith: John N. E. (Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of Bocker Farm Road, Roseland, I hereby declare that all statem true; and further that these statements or both, under the statements of both, under the statements of both, under the statements of both.	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Income mude herein of my own knowledge at the means were made with the knowledge Section 1001 of Title 18 of the United States	Rog. No. 25,378); Remeta S. Wellsham (e. ries J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Obstein, ieved to by time
Freehy appoint the following connected therewith: John N. E (Reg. No. 31, 78); Charles J. H (Reg. No. 36, 134). Address of Becker Farm Road, Rosciand,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Income mude herein of my own knowledge at the means were made with the knowledge Section 1001 of Title 18 of the United States	res J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Olylein, ieved to by time
Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of Bocker Farm Road, Rosciand, I hereby declare that all statem true; and further that these statements or both, under	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Income mude herein of my own knowledge at the means were made with the knowledge Section 1001 of Title 18 of the United States	res J. Herron c/o Carella, Byrne, Bain, G	ormation and belief are bel	Olylein, ieved to by time
Frereby appoint the following connected therewith: John N. E. (Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of Bocker Farm Road, Roseiand, I hereby declare that all statem true; and further that these stimprisonment, or both, under application or any patent issue	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Charles 107068 - (201) 994-1700. Sents mude herein of my own knowledge at thements were made with the knowledge Section 1001 of Title 18 of the United Stated thereon.	Rog. No. 25,378); Remett S. Wellshielder, Gres J. Herron c/o Carella, Byrne, Bain, Gree true and that all statements made un information willful false statements and the like tes Code and that such willful false statements.	ormation and belief are bel	Olylein, ieved to by time
Freechy appoint the following connected therewith: John N. E. (Reg. No. 31,778); Charles J. H. (Reg. No. 36,134). Address of Becker Farm Road, Roseiand, I hereby declare that all statem true; and further that these stamprisonment, or both, under application or any patent issue	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Charles 107068 - (201) 994-1700. Sents much herein of my own knowledge at latements were made with the knowledge Section 1001 of Title 18 of the United Stated thereon.	Rog. No. 25,378); Remett S. Wellshield, Gress J. Herron c/o Carella, Byrne, Bain, Greet true and that all statements made on information willful false statements and the like tes Code and that such willful false statements.	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Sents much herein of my own knowledge at latements were made with the knowledge Section 1001 of Title 18 of the United Stated thereon.	Rog. No. 25,378); Remett S. Wellshirter I. Herron c/o Carella, Byrne, Bain, Greet true and that all statements made un information willful false statements and the like tes Code and that such willful false statements. Date: Max. 5, 1774	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean Inventor's signature: Residence: 10 Fairway Road, Residence: 10 Fairway Road,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Sents much herein of my own knowledge at latements were made with the knowledge Section 1001 of Title 18 of the United Stated thereon.	Rog. No. 25,378); Remett S. Wellshield, Gress J. Herron c/o Carella, Byrne, Bain, Greet true and that all statements made on information willful false statements and the like tes Code and that such willful false statements.	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean Inventor's signature: Residence: 10 Fairway Road, Residence: 10 Fairway Road,	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Sents much herein of my own knowledge at latements were made with the knowledge Section 1001 of Title 18 of the United Stated thereon.	Rog. No. 25,378); Remett S. Wellshirter I. Herron c/o Carella, Byrne, Bain, Greet true and that all statements made un information willful false statements and the like tes Code and that such willful false statements. Date: Max. 5, 1774	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. Sents much herein of my own knowledge at latements were made with the knowledge Section 1001 of Title 18 of the United Stated thereon.	Rog. No. 25,378); Remett S. Wellshirter I. Herron c/o Carella, Byrne, Bain, Greet true and that all statements made un information willful false statements and the like tes Code and that such willful false statements. Date: Max. 5, 1774	ormation and belief are bel	Obstein, ieved to by time
Full name of inventor: Dean Inventor's signature: Residence: 10 Fairway Road, Post Office Address: sume	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NI 07068 - (201) 994-1700. Sents much herein of my own knowledge at themeats were made with the knowledge Section 1001 of Title 18 of the United Stated thereon. Sents much herein of my own knowledge at themeats were made with the knowledge at the section 1001 of Title 18 of the United Stated thereon. Section 1001 of Title 18 of the United Stated thereon. Citizenship	Rog. No. 25,378); Realized S. Wellister I. Herron c/o Carella, Byrne, Bain, Green J. Herron c/o Carella, Byrne, Bain, Green I will ful false statements made un information will ful false statements and the like tes Code and that such willful false statements. Date: Max. 5, 199	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean Inventor's signature: Residence: 10 Fairway Road, Post Office Address: sume	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. In the mude herein of my own knowledge a latements were made with the knowledge Soction 1001 of Title 18 of the United Stated thereon. In Murphy Paoli, PA 19301 Citizenship	Rog. No. 25,378); Reaneurs. Welling then J. Herron c/o Carella, Byrne, Bain, Gree true and that all statements made on information willful false statements and the like tes Code and that such willful false statements. Date: Mar. 5, 1994	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean Inventor's signature: Residence: 10 Fairway Road, Post Office Address: sume	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Char NJ 07068 - (201) 994-1700. In the mude herein of my own knowledge a latements were made with the knowledge Soction 1001 of Title 18 of the United Stated thereon. In Murphy Paoli, PA 19301 Citizenship	Rog. No. 25,378); Reaneurs. Welling then J. Herron c/o Carella, Byrne, Bain, Gree true and that all statements made on information willful false statements and the like tes Code and that such willful false statements. Date: Mar. 5, 1994	ormation and belief are bel	Olylein, ieved to by time
Full name of inventor: Dean Inventor's signature: Residence: 10 Fairway Road, Post Office Address: sume	lerron (Reg. No. 28,019); William Squire (orrespondence and telephone calls to Chai NJ 07068 - (201) 994-1700. Incuts mude herein of my own knowledge at thements were made with the knowledge Soction 1001 of Title 18 of the United State at thereon. In Murphy Paoli, PA 19301 Citizensh Areid Oriv. C. Rud Byenue Apt. J-2, Bryn Mawr, PA 19010	Rog. No. 25,378); Reaneurs. Welling then J. Herron c/o Carella, Byrne, Bain, Gree true and that all statements made on information willful false statements and the like tes Code and that such willful false statements. Date: Mar. 5, 1994	ormation and belief are bel	Olylein, ieved to by time